

#8

OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/730,617

DATE: 07/24/2001

TIME: 11:16:24

Input Set : A:\Cura-109.app

Output Set: N:\CRF3\07242001\I730617.raw

3 <110> APPLICANT: Burgess, Catherine E  
4 Prayaga, Sudhirdas K  
5 Shimkets, Richard A  
6 Rastelli, Luca  
7 Zerhusen, Bryan D  
8 Mezes, Peter S  
10 <120> TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding the Same  
12 <130> FILE REFERENCE: 15966-609  
14 <140> CURRENT APPLICATION NUMBER: 09/730,617  
15 <141> CURRENT FILING DATE: 2000-12-05  
17 <150> PRIOR APPLICATION NUMBER: 60/169,056  
18 <151> PRIOR FILING DATE: 1999-12-06  
20 <150> PRIOR APPLICATION NUMBER: 60/169,886  
21 <151> PRIOR FILING DATE: 1999-12-09  
23 <150> PRIOR APPLICATION NUMBER: 60/169,866  
24 <151> PRIOR FILING DATE: 1999-12-09  
26 <150> PRIOR APPLICATION NUMBER: 60/170,252  
27 <151> PRIOR FILING DATE: 1999-12-10  
29 <150> PRIOR APPLICATION NUMBER: 60/175,740  
30 <151> PRIOR FILING DATE: 2000-01-12  
32 <160> NUMBER OF SEQ ID NOS: 100  
34 <170> SOFTWARE: PatentIn Ver. 2.1  
36 <210> SEQ ID NO: 1  
37 <211> LENGTH: 1047  
38 <212> TYPE: DNA  
39 <213> ORGANISM: Homo sapiens  
41 <400> SEQUENCE: 1  
42 atgcagtggt cctgtctggc ctgtaccctc ctcagggtcc tcccacatgt cctgtctctc 60  
43 ctgagagacc ctgtgcctgt gcccacaggg accaagctct tccactcctg tatcacctca 120  
44 acgaacctat gcgcctcctt cctggaggtt gctgttgaag ctgcaggcat caccctctgg 180  
45 actgtagggt ctgagcaccg gccctgtcca tatccatccc tgcatgcctc tccgttcacc 240  
46 gactccttca acagaccatc cctgtctcct ctcaacaggc cccgctctgc tggggaacca 300  
47 cggacagagg ccttcccata cccaggcctg aaggccagag taggtgggac catcctcgcc 360  
48 gaagccggcc tcaattctca aggccatgcc gtggagccag tgccatctgg accctctggg 420  
49 tcaagcaaag ggtgtgtgct aatcaaaggc aggcctctga ggatgcaaaa ggcccgcgaa 480  
50 tgcccagtg accgtgaaaa ccttctgctg acaaaccctg cagtgccttc tctgtctcag 540  
51 ctgctctcca gctctccatg catcaagggt gaaacagagc aggagcgagc taatgcggaa 600  
52 ttgtacttgc aaagtcgggc cgctcgggat tacaattcaa ggctgctgct gaaactcggg 660  
53 cagatcccag ctgcaaaggg cagttccttc ctcgagctgc agaactgtgc tggagggggt 720  
54 ggctcagccc gaggtcccag gaaccactgc aagggtgggg cgggccctca gagcccttct 780  
55 ccagagctgg gggctggtag cccccctttg gctttggaga aggtcagtac ccaaccatt 840  
56 ccccaggccc gactgcggaa ggggtgtggac tggccccctg tgtctcctgg tgaccagtgt 900  
57 ccactgtgca ctctcccagg ccagccgaac ctggcacaca ctgggtgttc cctaaatagc 960  
58 catggagggt attgtggcat ggagagctgt cgattccaga aacctcctgg acatagggt 1020  
59 gggagctcat ctgcagaagc tgcctga 1047  
62 <210> SEQ ID NO: 2  
63 <211> LENGTH: 348

ENTERED

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/730,617

DATE: 07/24/2001

TIME: 11:16:24

Input Set : A:\Cura-109.app

Output Set: N:\CRF3\07242001\I730617.raw

```

64 <212> TYPE: PRT
65 <213> ORGANISM: Homo sapiens
67 <400> SEQUENCE: 2
68 Met Gln Trp Ser Cys Leu Ala Cys Thr Leu Leu Arg Val Leu Pro His
69   1           5           10           15
71 Val Leu Ser Leu Leu Arg Asp Pro Val Pro Val Pro Thr Gly Thr Lys
72           20           25           30
74 Leu Phe His Ser Cys Ile Thr Ser Thr Asn Pro Cys Ala Ser Phe Leu
75           35           40           45
77 Glu Val Ala Val Glu Ala Ala Gly Ile Thr Pro Trp Thr Val Gly Ser
78           50           55           60
80 Glu His Pro Pro Cys Pro Tyr Pro Ser Leu His Ala Ser Pro Phe Thr
81   65           70           75           80
83 Asp Ser Phe Asn Arg Pro Ser Pro Ala Pro Leu Asn Arg Pro Arg Ser
84           85           90           95
86 Ala Gly Glu Pro Arg Thr Glu Ala Phe Pro Ser Pro Gly Leu Lys Ala
87           100          105          110
89 Arg Val Gly Gly Thr Ile Leu Ala Glu Ala Gly Leu Asn Ser Gln Gly
90           115          120          125
92 His Ala Val Glu Pro Val Pro Ser Gly Pro Ser Gly Ser Ser Lys Gly
93           130          135          140
95 Cys Val Leu Ile Lys Gly Arg Pro Ser Arg Met Pro Lys Ala Arg Glu
96 145          150          155          160
98 Cys Pro Val Asp Arg Glu Asn Leu Leu Leu Thr Asn Pro Ala Val Pro
99           165          170          175
101 Ser Leu Leu Gln Leu Leu Ser Ser Ser Pro Cys Ile Lys Val Glu Thr
102           180          185          190
104 Glu Gln Glu Arg Ser Asn Ala Glu Phe Asp Leu Gln Ser Arg Ala Ala
105           195          200          205
107 Arg Asp Tyr Asn Ser Arg Leu Leu Leu Lys Leu Gly Gln Ile Pro Ala
108           210          215          220
110 Ala Lys Gly Ser Ser Phe Leu Glu Leu Gln Asn Val Ser Gly Gly Val
111 225           230           235           240
113 Gly Ser Ala Arg Gly Pro Arg Asn His Cys Lys Val Gly Ala Gly Pro
114           245          250          255
116 Gln Ser Pro Phe Pro Glu Leu Gly Ala Gly Ser Pro Pro Leu Ala Leu
117           260          265          270
119 Glu Lys Val Ser Thr Gln Pro Ile Pro Gln Ala Arg Leu Arg Lys Gly
120           275          280          285
122 Val Asp Trp Pro Pro Val Ser Pro Gly Asp Gln Cys Pro Leu Cys Thr
123           290          295          300
125 Leu Pro Gly Gln Pro Asn Leu Ala His Thr Gly Cys Ser Leu Asn Ser
126 305           310          315          320
128 His Gly Gly Tyr Cys Gly Met Glu Ser Cys Arg Phe Gln Lys Pro Pro
129           325          330          335
131 Gly His Arg Ala Gly Ser Ser Ser Ala Glu Ala Ala
132           340          345
135 <210> SEQ ID NO: 3
136 <211> LENGTH: 646

```

## RAW SEQUENCE LISTING

DATE: 07/24/2001

PATENT APPLICATION: US/09/730,617

TIME: 11:16:24

Input Set : A:\Cura-109.app

Output Set: N:\CRF3\07242001\I730617.raw

137 &lt;212&gt; TYPE: DNA

138 &lt;213&gt; ORGANISM: Homo sapiens

140 &lt;400&gt; SEQUENCE: 3

```

141 agcgcgcccg aacgaagccg cggcccgggc acagcatggc ccgcggcggg agggcgctcg 60
142 gatgttcggc agcctcctgc acttcgccct gctcgctgcc ggcgtcgtcc cgctcagctg 120
143 ggatctcccc gagccccgca gccgagccag caagatccga gtgcactcgc gaggcaagct 180
144 ctggggccatc ggtcacttca tgggcaagaa gagtctggag ccttccagcc catccccatt 240
145 ggggacagct ccccacacct ccctgagggg ccagcgactg cagctgagtc atgatctgct 300
146 cggaatcctc ctgctaaaga aggtctctggg cgtgagcctc agccgccccg caccctaaat 360
147 ccagtacagg aggtctgctg tacaataact gcagaaatga caccaataat ggggcagaca 420
148 caacagcgtg gcttagattg tgcccaccca gggaagggtc tgaatgggac cctgttgatg 480
149 gccccatctg gatgtaaatc ctgagctcaa atctctgtta ctccattact gtgatttctg 540
150 gctgggtcac cagaaatatc gctgatgcag acacagatta tgttcctgct gtatttcctg 600
151 cttccctgtt gaattggtga ataaaacctt gctctataca taaaaa 646

```

154 &lt;210&gt; SEQ ID NO: 4

155 &lt;211&gt; LENGTH: 112

156 &lt;212&gt; TYPE: PRT

157 &lt;213&gt; ORGANISM: Homo sapiens

159 &lt;400&gt; SEQUENCE: 4

```

160 Met Phe Gly Ser Leu Leu His Phe Ala Leu Leu Ala Ala Gly Val Val
161 1 5 10 15
163 Pro Leu Ser Trp Asp Leu Pro Glu Pro Arg Ser Arg Ala Ser Lys Ile
164 20 25 30
166 Arg Val His Ser Arg Gly Lys Leu Trp Ala Ile Gly His Phe Met Gly
167 35 40 45
169 Lys Lys Ser Leu Glu Pro Ser Ser Pro Ser Pro Leu Gly Thr Ala Pro
170 50 55 60
172 His Thr Ser Leu Arg Asp Gln Arg Leu Gln Leu Ser His Asp Leu Leu
173 65 70 75 80
175 Gly Ile Leu Leu Leu Lys Lys Ala Leu Gly Val Ser Leu Ser Arg Pro
176 85 90 95
178 Ala Pro Gln Ile Gln Tyr Arg Arg Leu Leu Val Gln Ile Leu Gln Lys
179 100 105 110

```

185 &lt;210&gt; SEQ ID NO: 5

186 &lt;211&gt; LENGTH: 693

187 &lt;212&gt; TYPE: DNA

188 &lt;213&gt; ORGANISM: Homo sapiens

190 &lt;400&gt; SEQUENCE: 5

```

191 atgaagctgg cattcctctt ccttgcccc atggccctcc tccttctggc tggctatggc 60
192 tgtgtcctcg gtgcctccag tgggaacctg cgcaccttg tgggctgtgc cgtgaggagg 120
193 tttacttttc tggccaagaa gccaggctgc aggggccttc ggatcaccac ggatgcctgc 180
194 tggggtcgct gtgagacctg ggagaaaccc attctggaac cccctatat tgaagcccat 240
195 catcgagtct gtacctacaa cgagaccaa caggtgactg tcaagctgcc caactgtgcc 300
196 ccgggagtcg accccttcta cacctatccc gtggccatcc gctgtgactg cggagcctgc 360
197 tccactgcca ccacggagct gaggttgatg ccagggggag ctgctgtggc actgggcttc 420
198 tgggtgtcagc gtaggagaca gggatctagg acaacaggga ccagggtggc acatgcagct 480
199 gtaagagaca aggtgagtct cctgaaggca gtagatggtt ggaatgggct gcttggggac 540
200 ccagcgagct cccagggcct ttctgttct tctgtaccc ctgtatttcc cttggctttc 600
201 caaattgact cagcttcttg taaagttgga aacttttcca gcaaacagac cttcatcttc 660

```

## RAW SEQUENCE LISTING

DATE: 07/24/2001

PATENT APPLICATION: US/09/730,617

TIME: 11:16:24

Input Set : A:\Cura-109.app

Output Set: N:\CRF3\07242001\I730617.raw

```

202 tccagtgcag agattacatt aggaggaaca tga 693
205 <210> SEQ ID NO: 6
206 <211> LENGTH: 230
207 <212> TYPE: PRT
208 <213> ORGANISM: Homo sapiens
210 <400> SEQUENCE: 6
211 Met Lys Leu Ala Phe Leu Phe Leu Gly Pro Met Ala Leu Leu Leu Leu
212 1 5 10 15
214 Ala Gly Tyr Gly Cys Val Leu Gly Ala Ser Ser Gly Asn Leu Arg Thr
215 20 25 30
217 Phe Val Gly Cys Ala Val Arg Glu Phe Thr Phe Leu Ala Lys Lys Pro
218 35 40 45
220 Gly Cys Arg Gly Leu Arg Ile Thr Thr Asp Ala Cys Trp Gly Arg Cys
221 50 55 60
223 Glu Thr Trp Glu Lys Pro Ile Leu Glu Pro Pro Tyr Ile Glu Ala His
224 65 70 75 80
226 His Arg Val Cys Thr Tyr Asn Glu Thr Lys Gln Val Thr Val Lys Leu
227 85 90 95
229 Pro Asn Cys Ala Pro Gly Val Asp Pro Phe Tyr Thr Tyr Pro Val Ala
230 100 105 110
232 Ile Arg Cys Asp Cys Gly Ala Cys Ser Thr Ala Thr Thr Glu Leu Arg
233 115 120 125
235 Leu Met Pro Gly Glu Ala Ala Val Ala Leu Gly Phe Trp Cys Gln Arg
236 130 135 140
238 Arg Arg Gln Gly Ser Arg Thr Thr Gly Thr Arg Trp Arg His Ala Ala
239 145 150 155 160
241 Val Arg Asp Lys Val Ser Leu Leu Lys Ala Val Asp Gly Trp Asn Gly
242 165 170 175
244 Leu Leu Gly Asp Pro Ala Ser Ser Gln Gly Leu Ser Ala Ser Ser Cys
245 180 185 190
247 Thr Pro Val Phe Pro Leu Ala Phe Gln Ile Asp Ser Ala Ser Gly Lys
248 195 200 205
250 Val Gly Asn Phe Ser Ser Lys Gln Thr Phe Ile Phe Ser Ser Ala Glu
251 210 215 220
253 Ile Thr Leu Gly Gly Thr
254 225 230
257 <210> SEQ ID NO: 7
258 <211> LENGTH: 483
259 <212> TYPE: DNA
260 <213> ORGANISM: Homo sapiens
262 <400> SEQUENCE: 7
263 cactgtcata ctgtttcaga attaaatatg cagaccagaa ggctctatac acaagagatg 60
264 gccagctgct ggtgggagat cctgtttgcag acaactgctg tgcagagaag atctgcatac 120
265 ttcctaacag aggcttg gccgcaccaagg tccccatttt cctggggatc caggaggagg 180
266 gccgctgcct ggcatgtgtg gagacagaag aggggccttc cctacagctg gagccatcca 240
267 ccttgccccc acaggatgtg aacattgagg aactgtacaa aggtggtgaa gaggccacac 300
268 gcttcacctt cttccagagc agctcaggct ccgccttcag gcttgaggct gctgcctggc 360
269 ctggctgggt cctgtgtggc ccggcagagc cccagcagcc agtacagctc accaaggaga 420
270 gtgagccctc agcccgtacc aagttttact ttgaacagag ctggtaggga gacaggaaac 480

```

## RAW SEQUENCE LISTING

DATE: 07/24/2001

PATENT APPLICATION: US/09/730,617

TIME: 11:16:24

Input Set : A:\Cura-109.app

Output Set: N:\CRF3\07242001\I730617.raw

```

271 tgc
274 <210> SEQ ID NO: 8
275 <211> LENGTH: 154
276 <212> TYPE: PRT
277 <213> ORGANISM: Homo sapiens
279 <400> SEQUENCE: 8
280 Leu Ser Tyr Cys Phe Arg Ile Lys Tyr Ala Asp Gln Lys Ala Leu Tyr
281 1 5 10 15
283 Thr Arg Asp Gly Gln Leu Leu Val Gly Asp Pro Val Ala Asp Asn Cys
284 20 25 30
286 Cys Ala Glu Lys Ile Cys Ile Leu Pro Asn Arg Gly Leu Ala Arg Thr
287 35 40 45
289 Lys Val Pro Ile Phe Leu Gly Ile Gln Gly Gly Ser Arg Cys Leu Ala
290 50 55 60
292 Cys Val Glu Thr Glu Glu Gly Pro Ser Leu Gln Leu Glu Pro Ser Thr
293 65 70 75 80
295 Leu Pro Pro Gln Asp Val Asn Ile Glu Glu Leu Tyr Lys Gly Gly Glu
296 85 90 95
298 Glu Ala Thr Arg Phe Thr Phe Phe Gln Ser Ser Ser Gly Ser Ala Phe
299 100 105 110
301 Arg Leu Glu Ala Ala Ala Trp Pro Gly Trp Phe Leu Cys Gly Pro Ala
302 115 120 125
304 Glu Pro Gln Gln Pro Val Gln Leu Thr Lys Glu Ser Glu Pro Ser Ala
305 130 135 140
307 Arg Thr Lys Phe Tyr Phe Glu Gln Ser Trp
308 145 150
311 <210> SEQ ID NO: 9
312 <211> LENGTH: 520
313 <212> TYPE: DNA
314 <213> ORGANISM: Homo sapiens
316 <400> SEQUENCE: 9
317 atgggcacac ctggcctggc cctgcatgca gactggacgg tgagccagga cttctgcagg 60
318 acacccaaat cctatgctat tcgtgattct cgacagatgg tgtgggtcct gagtggaaat 120
319 tctttaatag cagctcctct tagccgcagc attaagcctg tcactcttca ttaatatagcc 180
320 tgtagagaca cagaattcag tgacaaggaa aagggttaata tggtttacct gggaatcaag 240
321 ggaaaagatc tctgtctctt ctgtgcagaa attcagggca agcctacttt gcagcttaag 300
322 gaaaaaaata tcatggacct gtatgtggag aagaaagcac agaagccctt tctctttttc 360
323 cacaataaag aaggctccac ttctgtcttt cagtcagtct cttaccctgg ctggttcata 420
324 gccacctcca ccacatcagg acagcccatc tttctcacca aggagagagg cataactaat 480
325 aacactaact tctacttaga ttctgtggaa taaatccagg 520
328 <210> SEQ ID NO: 10
329 <211> LENGTH: 170
330 <212> TYPE: PRT
331 <213> ORGANISM: Homo sapiens
333 <400> SEQUENCE: 10
334 Met Gly Thr Pro Gly Leu Ala Leu His Ala Asp Trp Thr Val Ser Gln
335 1 5 10 15
337 Asp Phe Cys Arg Thr Pro Lys Ser Tyr Ala Ile Arg Asp Ser Arg Gln
338 20 25 30

```

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/730,617

DATE: 07/24/2001

TIME: 11:16:25

Input Set : A:\Cura-109.app

Output Set: N:\CRF3\07242001\I730617.raw